GV-R575D5-1GD

ATI Radeon™ HD 5750 Graphics Accelerator

User's Manual

Rev. 101

12MM-R575GD-101R

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Notice

Please do not remove any labels on this graphics card. Doing so may void the warranty of this card.

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Declaration of Conformity

We, Manufacturer/Importer
(full address)

G.B.T. Technology Trading GMbH
Bullenkoppel 16, 22047 Hamburg, Germany

declare that the product
(description of the apparatus, system, installation to which it refers)

VGA Card
GV-R575D5-1GD
is in conformity with
(reference to the specification under which conformity is declared)
in accordance with 89/336 EEC-EMC Directive

☐ **EN 55011**	Limits and methods of measurement of radio disturbance characteristics of industrial, scientific and medical (ISM) high frequency equipment	☒ **EN 61000-3-2**	Disturbances in supply systems caused
		☒ **EN 61000-3-3**	Disturbances in supply systems caused by household appliances and similar electrical equipment "Voltage fluctuations"
☐ **EN 55013**	Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment	☒ **EN 55024**	Information Technology equipment-Immunity characteristics-Limits and methods of measurement
☐ **EN 55014-1**	Limits and methods of measurement of radio disturbance characteristics of household electrical appliances, portable tools and similar electrical apparatus	☐ **EN 50082-1**	Generic immunity standard Part 1: Residual, commercial and light industry
		☐ **EN 50082-2**	Generic immunity standard Part 2: Industrial environment
☐ **EN 55015**	Limits and methods of measurement of radio disturbance characteristics of fluorescent lamps and luminaries	☐ **EN 55014-2**	Immunity requirements for household appliances tools and similar apparatus
☐ **EN 55020**	Immunity from radio interference of broadcast receivers and associated equipment	☐ **EN 50091- 2**	EMC requirements for uninterruptible power systems (UPS)
☒ **EN 55022**	Limits and methods of measurement of radio disturbance characteristics of information technology equipment		
☐ **DIN VDE 0855** ☐ **part 10** ☐ **part 12**	Cabled distribution systems; Equipment for receiving and/or distribution from sound and television signals		

☒ **CE marking** CE (EC conformity marking)

The manufacturer also declares the conformity of above mentioned product with the actual required safety standards in accordance with LVD 2006/95/EC

☐ **EN 60065**	Safety requirements for mains operated electronic and related apparatus for household and similar general use	☒ **EN 60950**	Safety for information technology equipment including electrical business equipment
☐ **EN 60335**	Safety of household and similar electrical appliances	☐ **EN 50091-1**	General and Safety requirements for uninterruptible power systems (UPS)

Manufacturer/Importer

(Stamp)

Date : Oct. 19, 2009

Signature : Timmy Huang

Name : Timmy Huang

DECLARATION OF CONFORMITY

Per FCC Part 2 Section 2.1077(a)

Responsible Party Name: G.B.T. INC. (U.S.A.)

Address: 17358 Railroad Street
City of Industry, CA 91748

Phone/Fax No: (818) 854-9338/ (818) 854-9339

hereby declares that the product

Product Name: VGA Card

Model Number: GV-R575D5-1GD

Conforms to the following specifications:

FCC Part 15, Subpart B, Section 15.107(a) and Section 15.109 (a),Class B Digital Device

Supplementary Information:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful and (2) this device must accept any inference received, including that may cause undesired operation.

Representative Person's Name: ERIC LU

Signature: Eric Lu

Date: Oct. 19, 2009

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1. Introduction

1.1. Features

- Powered by ATI Radeon™ HD 5750 Graphics Processing Unit (GPU)
- Supports PCI Express 2.0
- Integrated with 1 GB GDDR5 memory
- Supports DirectX 11
- Supports CrossFireX™
- Supports DVI-I / HDMI / Display port
- Supports 2 Dual-Link DVI-I connectors
- Supports D-Sub connectors (by adapter)
- Supports HDMI connector
- Supports Display port

1.2. Minimum System Requirements

- Hardware
  - Intel® Pentium® 4/Core™ 2 or AMD Athlon™/Phenom™
  - 1 GB or more of system memory for best performance
  - Optical drive for software installation (CD-ROM or DVD-ROM drive)
  - A power supply that provides at least 450-watt and with one 75w 6-pin PCIe power connector is required. The power supply should be with a known brand and certified to conform to safety regulations. (For the list of certified power supplies, go to http://ati.amd.com/certifiedpsu.)

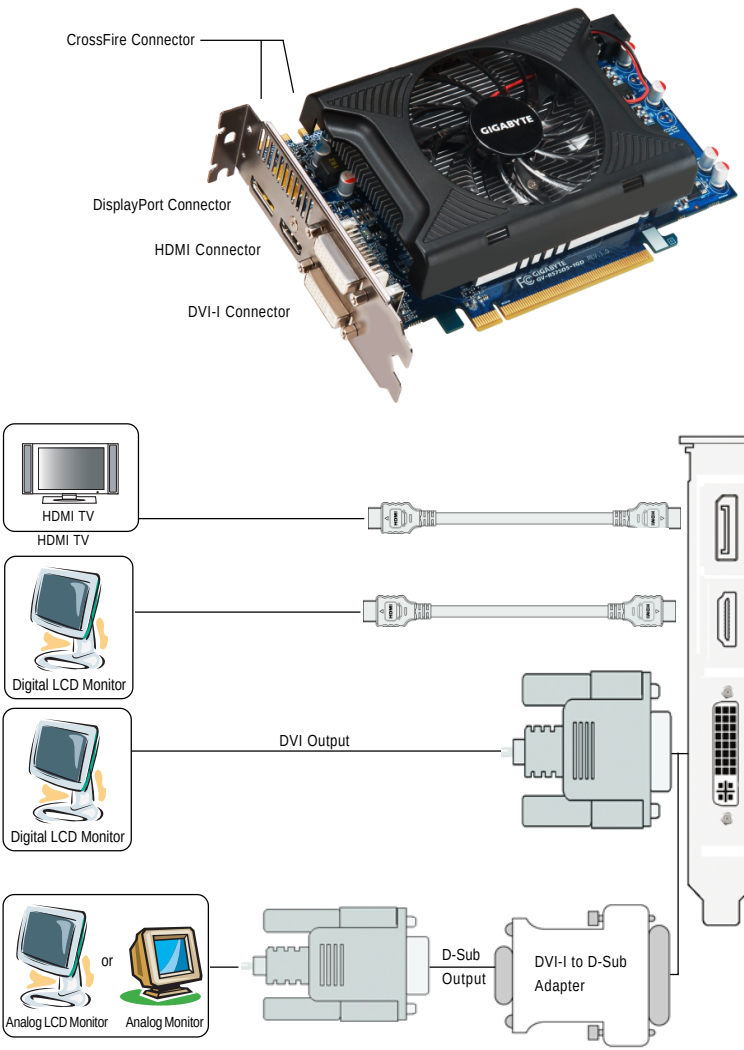
- Operating System
  - Windows® 7
  - Windows® Vista
  - Windows® XP with Service Pack 2 (SP2)
  - Windows® XP Professional x64 Edition

- CrossFireX™ Configuration

  If you are planning on using this graphics card as part of a CrossFireX system, the following is required:
  - A CrossFireX certified motherboard with two PCI Express x16 slots and correct chipset driver
  - Two GV-R575D5-1GD
  - A power supply that provides at least 600-watt and with two 6pin PCIe power connectors is required. The power supply should be with a known brand and certified to conform to safety regulations. (For the list of certified power supplies, go to http://ati.amd.com/certifiedpsu.)
  - One or two CrossFire bridge interconnect cables

2. Hardware Installation

2.1. Board Layout



NOTE

The entire Radeon HD 5750 series support HDMI output which can handle both audio and video signals. However, audio output from the onboard audio controller or the external sound card will be disabled when HDMI output is activated.

If no need for HDMI output function, set the onboard audio controller or the external sound card to be the default Sound Playback device to obtain audio output from your system. For more details, refer to page 11.

CAUTION

Expansion cards contain very delicate Integrated Circuit (IC) chips. To protect them against damage from static electricity, you should follow some precautions whenever you work on your computer.

1. Turn off your computer and unplug power supply.
2. Use a grounded wrist strap before handling computer components. If you do not have one, touch both of your hands to a safely grounded object or to a metal object, such as the power supply case.
3. Place components on a grounded antistatic pad or on the bag that came with the components whenever the components are separated from the system.

The card contains sensitive electric components, which can be easily damaged by static electricity, so the card should be left in its original packing until it is installed.

Unpacking and installation should be done on a grounded anti-static mat. The operator should be wearing an anti-static wristband, grounded at the same point as the anti-static mat.

Inspect the card carton for obvious damage. Shipping and handling may cause damage to your card. Be sure there are no shipping and handling damages on the card before proceeding.

- DO NOT APPLY POWER TO YOUR SYSTEM IF THE GRAPHICS CARD IS DAMAGED.
- In order to ensure that your graphics card can work correctly, please use official GIGABYTE BIOS only. Using non-official GIGABYTE BIOS might cause problem(s) on the graphics card.

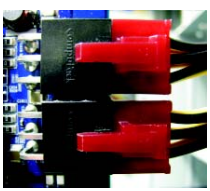
2.2. Hardware Installation

Now that you have prepared your computer, you are ready to install your graphics card.

Step 1.
Locate the PCI Express x16 slot. If necessary, remove the metal cover from this slot; then align your graphics card with the PCI Express x16 slot, and press it in firmly until the card is fully seated.

NOTE Make sure that the gold edge connector of the graphics card is securely inserted.

Step 2.
Replace the screw to fasten the card in place, and replace the computer cover.



CAUTION

After installation, remember to connect the power cable to your graphics card, or the system will not boot. Do not touch the card when it's operating to prevent system instability.

Step 3.
Plug the display cable into your card; then turn on the computer and monitor. To connect a flat panel display to your graphics card, use the DVI-I connector. To connect an HDMI monitor to your graphics card, use the HDMI connector. To connect a DisplayPort monitor to your graphics card, use the DisplayPort connector.

Connect an HDMI monitor

Connect a flat panel display

Connect a DisplayPort monitor

To HDMI Monitor

To DisplayPort Monitor

To Flat Panel Display

You are now ready to proceed with the installation of the graphics card driver. Please refer to next chapter for detailed instructions.

3. Software Installation

Notice the following guidelines before installing the drivers:

1. First make sure your system has installed DirectX 9 or later version.
2. Make sure your system has installed the appropriate motherboard drivers (for the motherboard drivers, please contact the motherboard manufacturer.)

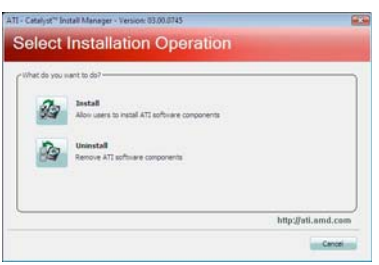
3.1. Driver and Utility Installation

3.1.1. Driver Installation

After installing the operating system, insert the driver disk into your optical drive. The driver Autorun screen is automatically displayed which looks like that shown in the screen shot below. (If the driver Autorun screen does not appear automatically, go to My Computer, double-click the optical drive and execute the setup.exe program.)

Step 1:
Click the Install Display Driver item.

Step 2:
Select the displayed language and then click Next.

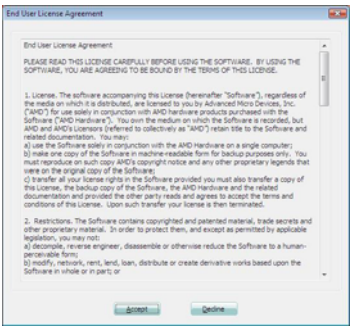


Step 3:
Click the Install button.

NOTE For software MPEG support in Windows XP, you must install DirectX first. Users who run Windows XP with Service Pack 2 or above do not need to install DirectX separately.

Setp 4:

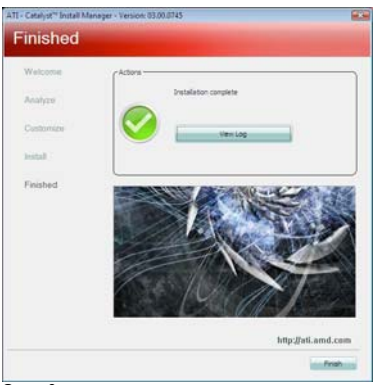
Click the Express or Custom icon and then click Next.



Step 5:

Click the Accept button.

The system is installing the components.

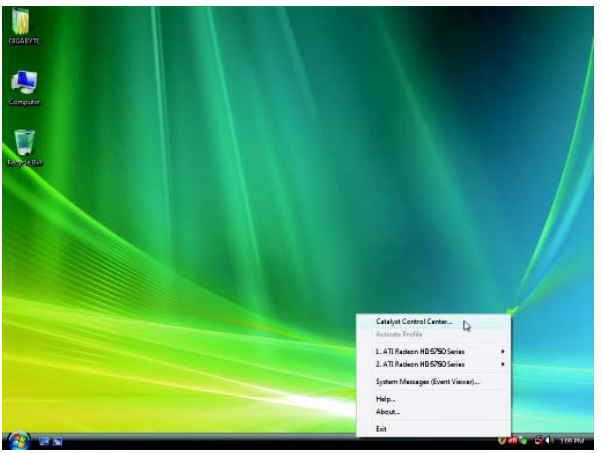


Step 6:

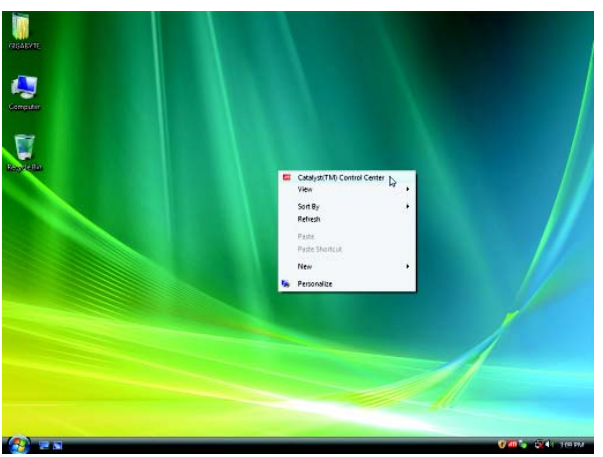
Click the Finish button to restart the computer. Then the driver installation is completed.

3.2. Taskbar Icon

After installation of the display driver, you will find an ATI icon in the notification area. Right-click the icon to enter the ATI Catalyst Control Center. The ATI Catalyst Control Center is used to configure all your graphics card settings.



Right-click the ATI icon to enter the ATI Catalyst Control Center.



Or you can right-click on the desktop and select Catalyst(TM) Control Center.

Configuring Audio Output

Configure the default audio output device based upon your needs.

Step 1:

Go to Start > Control Panel > Hardware and Sound > Manage audio devices.

Figure 1

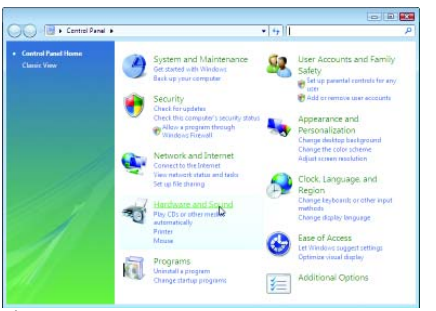
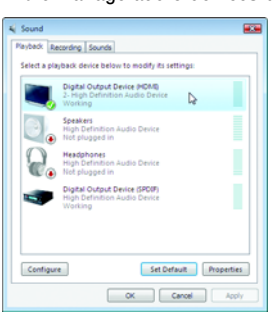


Figure 2

Figure 3

Step 2:

In the Manage audio devices dialog box, click the Playback tab.

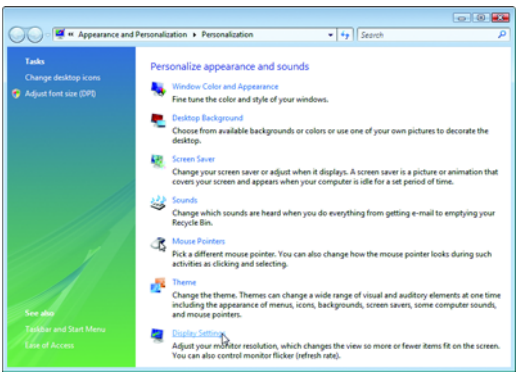


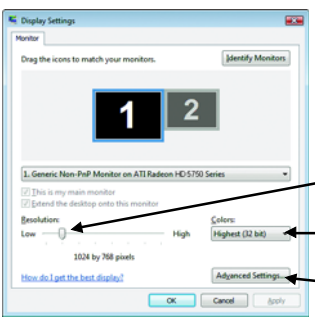
Using the picture to the left as the example, to set HDMI audio to be the default Sound Playback device, select Digital Output Device (HDMI). Otherwise, select Digital Output Device (SPDIF), which is the onboard audio controller.

3.3. Display Properties Pages

Display Settings (Resolutions and Color Quality for Windows)

To access **Display Settings** page, right-click on desktop and select **Personalize**, then the Personalization windows will show up. Select **Display Settings** to adjust the screen resolution and color quality settings.


Appearance and Personalization ▸ Personalization
Search
Tasks
Change desktop icons
Adjust font size (DPI)
Personalize appearance and sounds
Window Color and Appearance
Fine tune the color and style of your windows.
Desktop Background
Choose from available backgrounds or colors or use one of your own pictures to decorate the desktop.
Screen Saver
Change your screen saver or adjust when it displays. A screen saver is a picture or animation that covers your screen and appears when your computer is idle for a set period of time.
Sounds
Change which sounds are heard when you do everything from getting e-mail to emptying your Recycle Bin.
Mouse Pointers
Pick a different mouse pointer. You can also change how the mouse pointer looks during such activities as clicking and selecting.
Theme
Change the theme. Themes can change a wide range of visual and auditory elements at one time including the appearance of menus, icons, backgrounds, screen savers, some computer sounds, and mouse pointers.
Display Settings
Adjust your monitor resolution, which changes the view so more or fewer items fit on the screen. You can also control monitor flicker (refresh rate).
See also
Taskbar and Start Menu
Ease of Access



You can move the slider to change the resolution.

You can click the item to change the color quality.

Click the **Advanced** button for advanced settings.

Display Matrix	Model	GV-R575D5-1GD
	DVI+DP	Yes
	HDMI+DVI	Yes
	HDMI+DP	Yes
	CRT(Note)+HDMI	Yes
	CRT(Note)+DP	Yes

(Note) By a DVI-to-D-Sub adapter.

ATI Catalyst® Control Center Basic View :

The Basic View is the default view when ATI Catalyst Control Center is launched for the first time. This interface provides access to the basic settings and advanced features of your ATI graphics products. You can switch between Basic View and Advanced View at any time.

Catalyst Control Center - Basic
ATI Catalyst Control Center
Welcome to the ATI Catalyst® Control Center
What would you like to use?
Basic [Easy Setup Wizards and Quick Settings]
Provides both step-by-step assistance and Quick Settings for changing your display setup, and other common tasks.
Advanced
Allows you to configure all of the many available settings of your ATI graphics product.
Don't show this page again.
You can choose between "Basic" [Easy and Quick] or "Advanced" at any time.
Click Next to continue
Exit
Next >

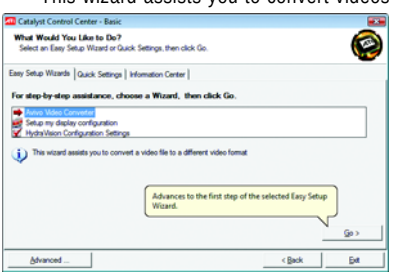
To access more settings in Basic View, click **Basic**, and then click **Next**.

Easy Setup Wizards:

Choose a wizard from the central list and click **Go** for step-by-step assistance.

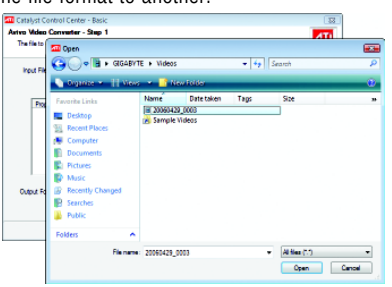
- **Avivo Video Converter**

  This wizard assists you to convert videos from one file format to another.


Catalyst Control Center - Basic
What Would You Like to Do?
Select an Easy Setup Wizard or Quick Settings, then click Go.
Easy Setup Wizards | Quick Settings | Information Center
For step-by-step assistance, choose a Wizard, then click Go.
Avivo Video Converter
Setup my display configuration
HydraVision Configuration Settings
This wizard assists you to convert a video file to a different video format
Advances to the first step of the selected Easy Setup Wizard.
Go >
Advanced ...
< Back
Exit

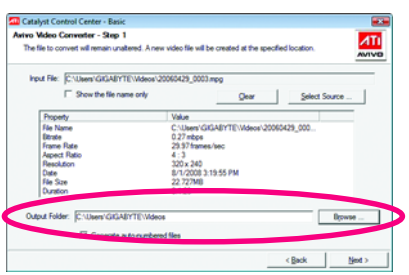
Step 1:

Select **Avivo Video Converter**, then click **Go**.



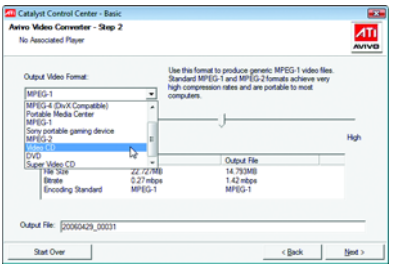
Step 2:

Select the video file to be converted.



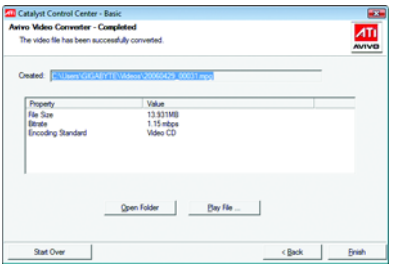
Step 3:

In the **Output Folder** area, select the destination folder where the new file will be located. Click **Next**.

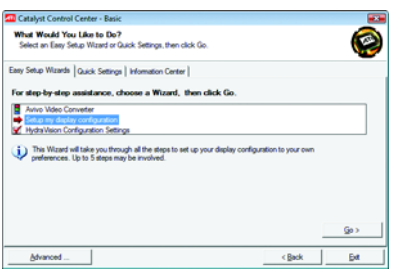


Step 4:

In the Output Video Format list, select a file format for the new file. If you wish to change the name of the new file, enter the new name in the Output File area. Finally, click Next to start file conversion.

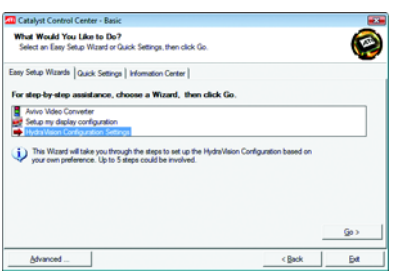


The video file has been successfully converted.


Catalyst Control Center - Basic
What Would You Like to Do?
Select an Easy Setup Wizard or Quick Settings, then click Go.
Easy Setup Wizards | Quick Settings | Information Center
For step-by-step assistance, choose a Wizard, then click Go.
Avivo Video Converter
Setup my display configuration
HydraVision Configuration Settings
This Wizard will take you through all the steps to set up your display configuration to your own preferences. Up to 5 steps may be involved.
Go >
Advanced ...
< Back
Exit

■ Setup my display configuration

This wizard allows you to configure display setting for desktop viewing.

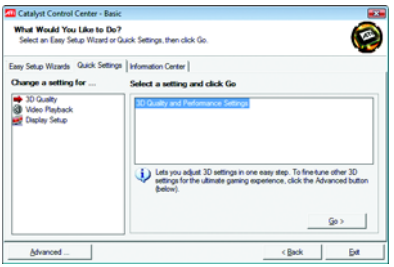

Catalyst Control Center - Basic
What Would You Like to Do?
Select an Easy Setup Wizard or Quick Settings, then click Go.
Easy Setup Wizards | Quick Settings | Information Center
For step-by-step assistance, choose a Wizard, then click Go.
Avivo Video Converter
Setup my display configuration
HydraVision Configuration Settings
This Wizard will take you through the steps to set up the HydraVision Configuration based on your own preference. Up to 5 steps could be involved.
Go >
Advanced ...
< Back
Exit

■ HydraVision Configuration Settings

This wizard will take you to set up the HydraVision Configuration based on your own preference.

Quick Settings:

The Quick Settings page provides access to three main settings.


Catalyst Control Center - Basic
What Would You Like to Do?
Select an Easy Setup Wizard or Quick Settings, then click Go.
Easy Setup Wizards
Quick Settings
Information Center
Change a setting for ...
Select a setting and click Go
3D Quality
Video Playback
Display Setup
3D Quality and Performance Settings
Lets you adjust 3D settings in one easy step. To fine-tune other 3D settings for the ultimate gaming experience, click the Advanced button (below).
Go >
Advanced ...
< Back
Exit

- **3D Quality**

  3D Performance and Quality Settings allows your 3D games and applications to get faster performance and better quality with a more balanced setting.

- **Video Playback**

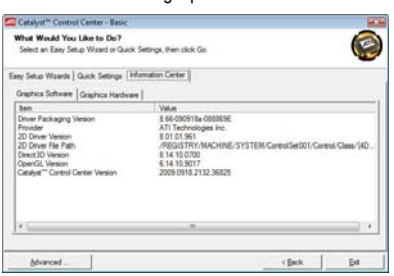
  Use this option to optimize video playback in different room environment or to select how video playback appears on the second display.

- **Display Setup**

  This option allows you to configure your desktop, including changing desktop resolution and desktop mode, setting up extended desktop (requires more than one display), and rotating desktop image to match new display orientation.

Information Center:

The Information Center page in Basic and Advanced View provides hardware and software information about the installed graphics card.



- **Graphics Software**

  Provides software information including driver version, CATALYST version, Direct 3D version and so on.

- **Graphics Hardware**

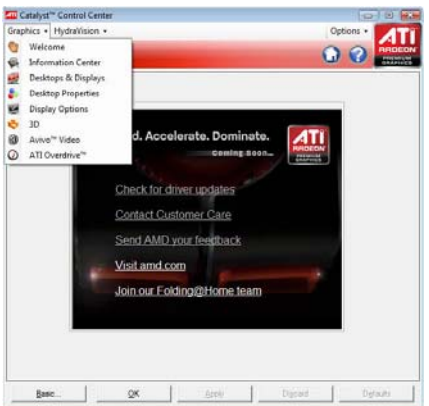
  Provides hardware information including graphics chipset, BIOS version, memory size, core clock and so on.

ATI Catalyst Control Center Advanced View

The Advanced page allows you to configure all of the many available settings of your ATI graphics card.

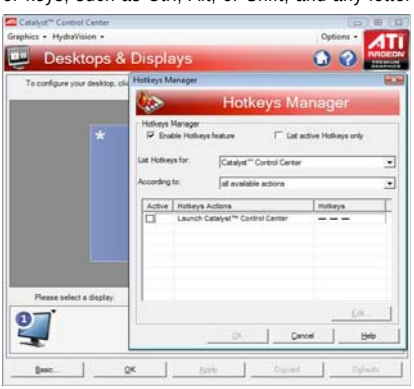
View Properties:

The CATALYST Control Center dashboard supports three types of views.



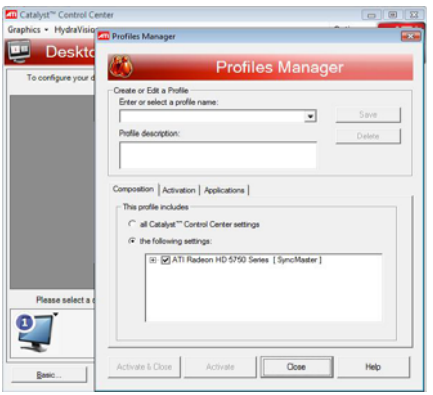
Hotkeys Properties:

The Hotkeys Manager allows you to create shortcut key combinations to quickly perform tasks such as changing a graphics setting or opening an application. A Hotkey is a combination of a modifier key or keys, such as Ctrl, Alt, or Shift, and any letter from the alphabet.



Profiles Properties:

You can use profiles to create customized environments for your desktop, video, and 3D applications. Define and save your own personal video settings that can be quickly activated manually, through a Hotkey, or by file association.

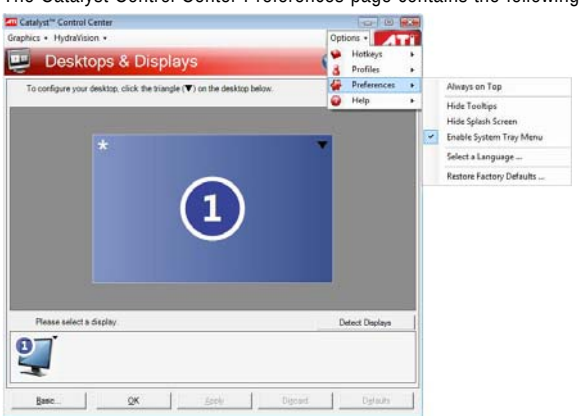


Note:

A profile applies to a specific graphics card. If there is more than one graphics card installed in your computer, you need to select the appropriate card before creating, loading, or activating a Profile.

Preferences Properties:

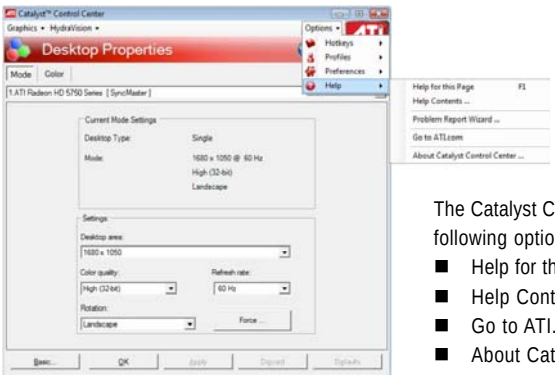
The Preferences page helps to restore defaults, change skins, and update the Catalyst Control Center. The Catalyst Control Center Preferences page contains the following options:



- Always on Top
- Hide Tooltips
- Hide Splash Screen
- Enable System Tray Menu
- Select a Language ...
- Restore Factory Defaults ...

Help Properties:

The Catalyst Control Center Help feature allows you to access the comprehensive online help, register your product, or generate a problem report should you require technical support.

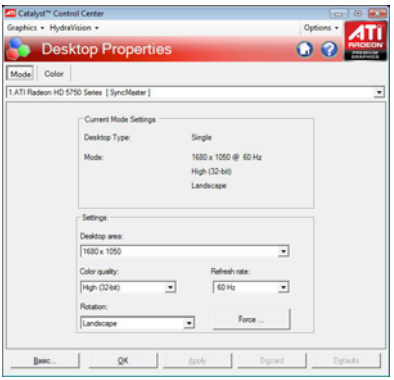


The Catalyst Control Center Help feature offers the following options:

- Help for this Page
- Help Contents ...
- Go to ATI.com
- About Catalyst Control Center ...

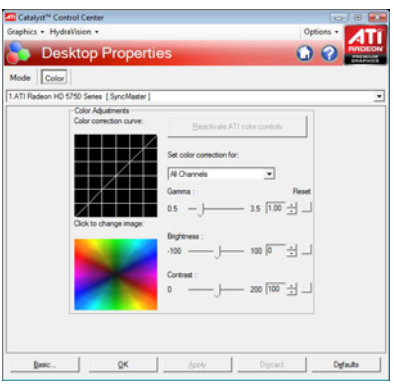
Desktop Properties:

Use Desktop Properties to change your desktop setup.



■ Mode

Use Mode to set up desktop area,color quality, Refresh rate and Rotation.

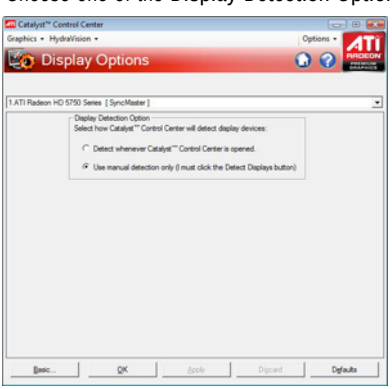


■ Color

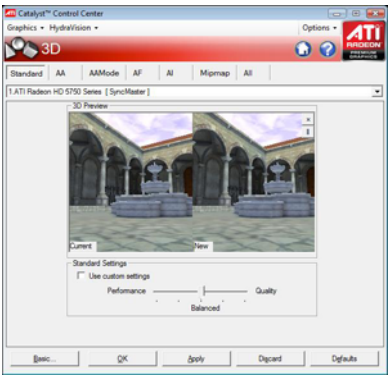
Adjust the overall richness of color by using the Gamma control. To adjust the overall brightness use the Brightness control, and the overall contrast use the Contrast control.

Display Options:

Choose one of the Display Detection Option to prevent screen flicker when detecting a display.

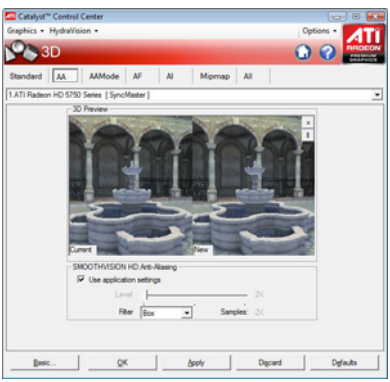


3D:



■ Standard Settings

The Standard Settings page provides access to a universal slider control where you can simultaneously adjust all of the standard 3D settings for any type of 3D application. The slider enables you to adjust for overall system performance, overall 3D image quality, or a balance between the two. This page is useful when you are not aware of which type of 3D settings your application uses, or when you want to use an overall adjustment control that rapidly configures your application.



■ Anti-Aliasing

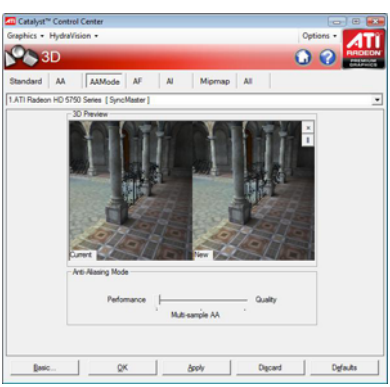
Anti-Aliasing (AA) is a rendering technique designed to remove jagged edges, shimmering, and pixelation problems that are common in rendered 3D images. Rather than determining the color to display for each pixel by sampling a single location at the pixel's center, anti-aliasing samples multiple locations within each pixel and blends the results together to produce the final color.

Anti-Aliasing can be set to favor either system processing performance or image quality, or the application can decide:

• Setting for performance is best used when the 3D image is animated and smooth motion is the most important consideration.

• Setting for quality is best used when highly detailed and realistic 3D objects is the most important consideration.

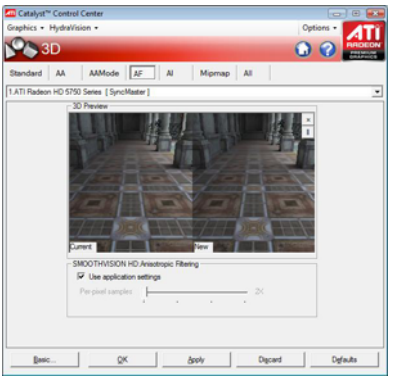
• If you are unsure of how to configure anti-aliasing, use the Use application settings option. Your display will automatically adjust to the application's requirements.



■ Adaptive Anti-Aliasing

Adaptive anti-aliasing is a technique that applies a combination of multi-sampling (MSAA) and super-sampling (SSAA) on 3D objects to improve edge smoothness and fine detail.

This feature renders 3D objects containing transparencies more realistic, providing exceptional levels of image quality while maintaining performance.



■ Anisotropic Filtering

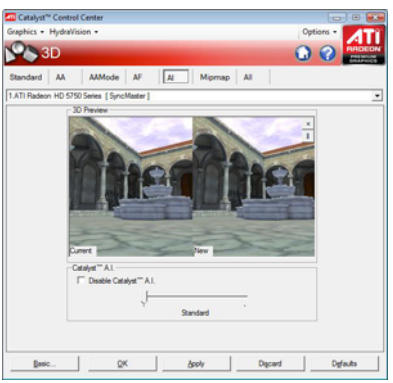
Anisotropic Filtering is a technique that preserves detail on surfaces that have three-dimensional perspective and fade away into the background. It works best when used in conjunction with Mipmapping.

Anisotropic Filtering can be set to favor either an increase in system processing performance or improved image quality:

• Setting for performance is best used with applications that display objects with smooth, simple surfaces, like those seen in CAD applications.

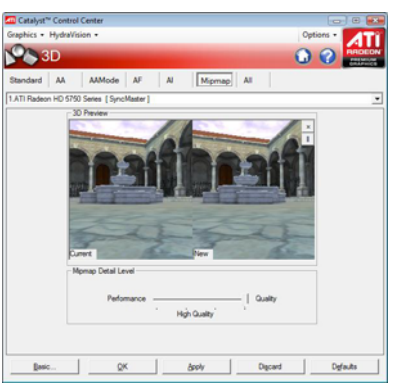
• Setting for quality is best used with applications that display highly detailed scenes, backgrounds, and textured objects, like those seen in 3D games.

• If you are unsure how to configure anisotropic filtering, use the Use application settings option. Your display will automatically adjust to the application's requirements.



■ CATALYST® A.I.

Catalyst® A.I. makes use of ATI's new texture analyzer technology to optimize performance in 3D applications while maintaining or even improving image quality. It analyzes individual textures as they are loaded to determine the best and fastest way to display them.



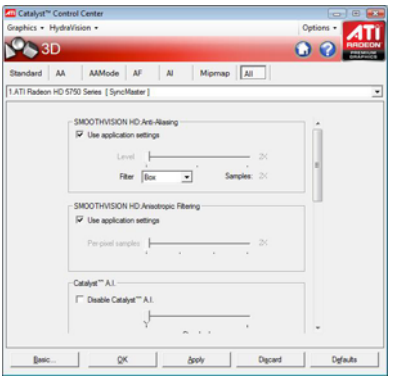
■ Mipmap Detail Level

Mipmapping is a texturing technique that preserves the detail on a 3D object's surface as it moves into the background. A series of low- and high-resolution texture maps are stored in memory and selectively used to create the object's surface, depending on what level of detail is needed.

Mipmap detail level can be set to favor either an increase in system processing performance or improved image quality:

• Setting for performance is best used when the 3D image is animated and smoothness of motion is the most important consideration.

• Setting for quality is best used when high surface detail is required, especially if the animated object rotates or moves into the background.



■ All Settings

The All Settings page combines all of the principal 3D features onto a single page, without any preview window, allowing for quick access and adjustment. This page is useful when it is not necessary to preview the adjusted settings because the effect is already known or understood.

Avivo™ Video:

- **Presets**

  To quickly adjust your video settings choose one of the video presets.

  Note:

  These settings will only affect applications with video overlay support.

- **Basic Color**

  Use the Avivo Color: Basic option to manually set Gamma, Brightness, Contrast, Saturation, and Tint for video playback.

  Note:

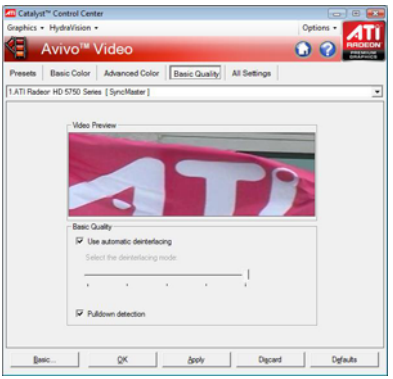
  Certain video formats do not support these adjustments. These settings will only affect applications with video overlay support.

- **Advanced Color**

  Use the Advanced Color page to fine tune the color of standard definition video (720x480) to make the color more or less vibrant and to remove excess red from skin tones. You can preview your changes before applying them.

  Note:

  This page is only for Windows Vista.



■ Basic Quality

You can control the deinterlacing settings by checking the Use automatic deinterlacing item. The bar determines how the two interlaced video fields are converted into a non-interlaced form.

Note:

These settings will only affect applications with video overlay support.

■ All Settings

The All Settings page combines all of the principal Video features onto a single page, without any preview window, allowing quick access and adjustment. This page is useful when it is not necessary to preview the adjusted settings because the effect is already known or understood.

Note:

These settings will only affect applications with video overlay support.

ATI Overdrive:

Use Overdrive to maximize your viewing experience by dynamically and safely overclocking the graphics processor and memory. Use the Automated clock configuration utility to obtain the ATI recommended speeds for the graphics processor clock and video memory clock. Alternatively, manually set these speeds to meet your specific requirements. Finally, Overdrive can be configured to run when the computer is booted or only when running 3D applications.

Note:

If your computer cannot restart after setting a higher clock speed, press and hold the <Shift> key during system start-up until you hear three beeps. Once your computer has full booted, disable Preserve ATI Overdrive settings at logon.

4. Troubleshooting Tips

The following troubleshooting tips may help if you experience problems. Contact your dealer or GIGABYTE for more advanced troubleshooting information.

- Check that the card is seated properly in the PCI Express x16 slot.
- Ensure that the display cable is securely fastened to the card's display connector.
- Make sure that the monitor and computer are plugged in and receiving power.
- If necessary, disable any built-in graphics capabilities on your motherboard. For more information, consult your computer's manual or manufacturer.
  (NOTE: Some manufacturers do not allow the built-in graphics to be disabled or to become the secondary display.)
- Make sure you selected the appropriate display device and graphics card when you install the graphics driver.
- For more troubleshooting information, please right-click the ATI icon in the notification area.
- Restart your computer.
  Press <F8> on your keyboard after system starts up. When the Windows Advanced Options Menu appears, select Safe Mode and press <Enter>.
  After getting into Safe Mode, in Device Manager check whether the driver for the graphics card is correct.
- For more assistance, use the Troubleshooting Guide located in the Windows Help or contact your computer manufacturer.
- If you are not able to find the desired monitor color/resolution settings:
  The color and screen resolution options available for selection depend on the graphics card being installed.

If necessary, adjust your monitor's setting using monitor's adjust panel to make the screen look focused, crisp, and sharp. (Please refer to the monitor's manual.)

5. Appendix

5.1. Resolutions and Color Depth Tables

Radeon™ HD 5750 Series 2D Single Display Modes

Display Screen Resolution	Refresh Rate (Hz)	Color Depth (bpp) 8bpp(256 color) Standard mode	16bpp(65K color) High mode	32bpp(16.7M) True mode
640 x 480	200	✓	✓	✓
800 x 600	200	✓	✓	✓
1024 x 768	200	✓	✓	✓
1152 x 864	100	✓	✓	✓
1280 x 768	85	✓	✓	✓
1280 x 960	160	✓	✓	✓
1280 x 1024	120	✓	✓	✓
1440 x 900	60	✓	✓	✓
1600 x 1200	100	✓	✓	✓
1680 x 1050	100	✓	✓	✓
1792 x 1344	85	✓	✓	✓
1800 x 1440	70	✓	✓	✓
1856 x 1392	75	✓	✓	✓
1920 x 1080	75	✓	✓	✓
1920 x 1200	85	✓	✓	✓
1920 x 1400	75	✓	✓	✓
2048 x 1536	66	✓	✓	✓

* The tables are for reference only. The actual resolutions supported depend on the monitor you use.

5.2. Regulatory Statements

Regulatory Notices

This document must not be copied without our written permission, and the contents there of must not be imparted to a third party nor be used for any unauthorized purpose. Contravention will be prosecuted. We believe that the information contained herein was accurate in all respects at the time of printing. GIGABYTE cannot, however, assume any responsibility for errors or omissions in this text. Also note that the information in this document is subject to change without notice and should not be construed as a commitment by GIGABYTE.

Our Commitment to Preserving the Environment

In addition to high-efficiency performance, all GIGABYTE motherboards fulfill European Union regulations for RoHS (Restriction of Certain Hazardous Substances in Electrical and Electronic Equipment) and WEEE (Waste Electrical and Electronic Equipment) environmental directives, as well as most major worldwide safety requirements. To prevent releases of harmful substances into the environment and to maximize the use of our natural resources, GIGABYTE provides the following information on how you can responsibly recycle or reuse most of the materials in your "end of life" product.

Restriction of Hazardous Substances (RoHS) Directive Statement

GIGABYTE products have not intended to add and safe from hazardous substances (Cd, Pb, Hg, Cr+6, PBDE and PBB). The parts and components have been carefully selected to meet RoHS requirement. Moreover, we at GIGABYTE are continuing our efforts to develop products that do not use internationally banned toxic chemicals.

Waste Electrical & Electronic Equipment (WEEE) Directive Statement

GIGABYTE will fulfill the national laws as interpreted from the 2002/96/EC WEEE (Waste Electrical and Electronic Equipment) directive. The WEEE Directive specifies the treatment, collection, recycling and disposal of electric and electronic devices and their components. Under the Directive, used equipment must be marked, collected separately, and disposed of properly.

WEEE Symbol Statement

The symbol shown below is on the product or on its packaging, which indicates that this product must not be disposed of with other waste. Instead, the device should be taken to the waste collection centers for activation of the treatment, collection, recycling and disposal procedure. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local government office, your household waste disposal service or where you purchased the product for details of environmentally safe recycling.

- When your electrical or electronic equipment is no longer useful to you, "take it back" to your local or regional waste collection administration for recycling.
- If you need further assistance in recycling, reusing in your "end of life" product, you may contact us at the Customer Care number listed in your product's user's manual and we will be glad to help you with your effort.

Finally, we suggest that you practice other environmentally friendly actions by understanding and using the energy-saving features of this product (where applicable), recycling the inner and outer packaging (including shipping containers) this product was delivered in, and by disposing of or recycling used batteries properly. With your help, we can reduce the amount of natural resources needed to produce electrical and electronic equipment, minimize the use of landfills for the disposal of "end of life" products, and generally improve our quality of life by ensuring that potentially hazardous substances are not released into the environment and are disposed of properly.

China Restriction of Hazardous Substances Table

The following table is supplied in compliance with China's Restriction of Hazardous Substances (China RoHS) requirements:

关于符合中国《电子信息产品污染控制管理办法》的声明
Management Methods on Control of Pollution from Electronic Information Products
(China RoHS Declaration)

产品中有毒有害物质或元素的名称及含量
Hazardous Substances Table

部件名称(Parts)	有毒有害物质或元素(Hazardous Substances)					
	铅(Pb)	汞(Hg)	镉(Cd)	六价铬(Cr(VI))	多溴联苯(PBB)	多溴二苯醚(PBDE)
PCB板 PCB	○	○	○	○	○	○
结构件及风扇 Mechanical parts and Fan	×	○	○	○	○	○
芯片及其他主动零件 Chip and other Active components	×	○	○	○	○	○
连接器 Connectors	×	○	○	○	○	○
被动电子元器件 Passive Components	×	○	○	○	○	○
线材 Cables	○	○	○	○	○	○
焊接金属 Soldering metal	○	○	○	○	○	○
助焊剂，散热膏，标签及其他耗材 Flux, Solder Paste, Label and other Consumable Materials	○	○	○	○	○	○

○：表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006标准规定的限量要求以下。
Indicates that this hazardous substance contained in all homogenous materials of this part is below the limit requirement SJ/T 11363-2006

×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006标准规定的限量要求。
Indicates that this hazardous substance contained in at least one of the homogenous materials of this part is above the limit requirement in SJ/T 11363-2006

对销售之日的所受售产品，本表显示我公司供应链的电子信息产品可能包含这些物质。注意：在所售产品中可能会也可能不会含有所有所列的部件。
This table shows where these substances may be found in the supply chain of our electronic information products, as of the date of the sale of the enclosed products. Note that some of the component types listed above may or may not be a part of the enclosed product.